

Notice of Allowability

Application No.

09/992,451

Examiner

Khanh Dinh

Applicant(s)

BAHL, PRADEEP

Art Unit

2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/11/06.
2. ☒ The allowed claim(s) is/are 1,3-14 and 16-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Khanh Dinh
Primary Examiner

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Daniel P. McLoughlin (the Undersigned Attorney, Reg. No.46,066) on 8/29/06.

The application has been amended as follows:

IN THE CLAIMS:

Please **cancel** claims 2 and 15.

Please **amend** claims 1, 8 and 14 as follows:

1. (Currently Amended) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications with a mobile host, the steps comprising:

receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host, wherein the mobility service is operative to provide mobility support

for the first application in communicating with the second application when the mobile host moves between addresses;

calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;

establishing, by the session establishment service, a session with the mobile host;

setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;

obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by the mobility service, a communication connection for the new address of the mobile host,

wherein the computer-executable instructions further comprise computer-executable instructions for the correspondent host to perform the steps of:

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

2. (Cancelled)

8. (Currently Amended) A computer-readable medium having computer-executable instructions for performing steps for a correspondent host to provide mobility support for communications between a first application on the correspondent host with a second application on a mobile host over an existing session and an existing communication connection, the steps comprising:

receiving, by a session establishment service of the correspondent host implementing a session establishment protocol, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by a mobility service, a communication connection for the new address of the mobile host for communications between the first and second applications, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host,

wherein the mobility service is operative to provide mobility support for the communications between the first application and the second application when the mobile host moves between addresses, and

wherein the computer-executable instructions further comprise computer-executable instructions for the correspondent host to perform the steps of:

Art Unit: 2151

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

14. (Currently Amended) A method for a correspondent host to provide mobility support for communications with a mobile host, comprising the steps of:

receiving, by a mobility service of the correspondent host, a request from a first application on the correspondent host to set up a communication connection with a second application on the mobile host, the mobility service being implemented in an application programming interface (API) layer of an operating system of the correspondent host, wherein the mobility service is operative to provide mobility support for the first application in communicating with the second application when the mobile host moves between addresses;

calling, by the mobility service, a session establishment service of the correspondent host implementing a session establishment protocol to establish a session with the mobile host;

establishing, by the session establishment service, a session with the mobile host;

setting up, by the mobility service, a communication connection under a transport protocol for communications between the first and second applications;

obtaining, by the session establishment service, a notice through operation of the session establishment protocol that the mobile host has moved to a new address;

reestablishing, by the session establishment service, a session with the mobile host for the new address of the mobile host; and

resetting, by the mobility service, a communication connection for the new address of the mobile host;

retrieving buffered communication data for the communication connection between the first and second applications prior to resetting the communication connection; and

sending the retrieved buffered communication data over the reset communication channel for the new address of the mobile host.

15. (Cancelled)

Reason for Allowance

3. Claims 1, 3-14 and 16-20 are allowed.
4. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104(e). In this case, the substance of applicant's remarks filed on 8/11/2006 with respect to the added claim limitation point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all

Art Unit: 2151

probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khanh Dinh
Primary Examiner
Art Unit 2151
8/30/2006